

# C QUERCETIN

## Chemid

### QUERCETIN

\*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Abelmoschus esculentus</i>	Flower	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Abelmoschus moschatus</i>	Flower	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Abutilon theophrasti</i>	Root	--	--		Paszkowski, W. L., Kremer, R. J. 1988. Biological Activity and Tentative Identification of Flavonoid Components in Velvetleaf ( <i>Abutilon theophrasti</i> Medik.) Seed Coats. <i>J. Chem. Ecol.</i> , 14(7): 1573-1582.
<i>Abutilon theophrasti</i>	Flower	--	--		Matlawska, I. 1990. Investigation of Flavonoid Compounds of Selected Species from Malvaceae Family. <i>Herba Pol.</i> , 36(3): 65-69.
<i>Abutilon theophrasti</i>	Leaf	--	--		Matlawska, I. 1990. Investigation of Flavonoid Compounds of Selected Species from Malvaceae Family. <i>Herba Pol.</i> , 36(3): 65-69.
<i>Acacia catechu</i>	Plant	--	--	--	

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Acacia nilotica</i>	Plant	--	--		--
<i>Acacia senegal</i>	Plant	--	--		--
<i>Achillea millefolium</i>	Plant	--	--		Tunon, H., Thorsell, W., and Bohlin, L. 1993. Mosquito Repelling Activity of Compounds Occurring in <i>Achillea millefolium</i> L. (Asteraceae). <i>Economic Botany</i> 48(2): 111-120, 1994.
<i>Acinos suaveolens</i>	Shoot	430	430	1.4131601686191924	Jim Duke's personal files.
<i>Actinidia chinensis</i>	Plant	--	--		--
<i>Aesculus hippocastanum</i>	Bark	--	--		List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Aesculus hippocastanum</i>	Seed	--	--		Jim Duke's personal files.
<i>Agathosma betulina</i>	Plant	--	--		Williamson, E. M. and Evans, F. J., <i>Potter's New Cyclopaedia of Botanical Drugs and Preparations</i> , Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
<i>Ageratum conyzoides</i>	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
<i>Agrimonia eupatoria</i>	Shoot	--	--		--
<i>Agrimonia eupatoria</i>	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp.
<i>Ailanthus altissima</i>	Leaf	--	--		--
<i>Albizia lebbeck</i>	Leaf	--	--		Wealth of India.
<i>Allium cepa</i>	Bulb	0	48100	1	--
<i>Allium sativum</i> var. <i>sativum</i>	Bulb	0.08	200	-1	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Allium schoenoprasum	Leaf	4	9	-0.3518851560841334	--
Alpinia officinarum	Rhizome	--	--		--
Althaea officinalis	Leaf	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Althaea officinalis	Root	--	--		--
Ammi majus	Leaf	--	--		--
Ammi visnaga	Plant	--	--		--
Anastatica hierochuntica	Plant	--	--		--
Anemone pulsatilla	Leaf	--	--		--
Anethum graveolens	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
Anogeissus latifolia	Plant	--	--		--
Apium graveolens	Pt	--	0		--
Arachis hypogaea	Plant	--	--		--
Araucaria bidwillii	Flower	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
Arctostaphylos uva-ursi	Leaf	--	--		--
Ardisia japonica	Plant	--	--		--
Armoracia rusticana	Leaf	--	--		Abstract (See species file)
Artemisia annua	Plant	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Artemisia dracunculus</i>	Shoot	--	--		--
<i>Artocarpus altilis</i>	Leaf	--	--		--
<i>Asimina triloba</i>	Leaf	--	--		--
<i>Aspalathus linearis</i>	Plant	--	7.5	-1	--
<i>Aspalathus linearis</i>	Shoot	--	1.3	-0.7538426844404754	--
<i>Asparagus officinalis</i>	Root	--	--		--
<i>Astragalus membranaceus</i>	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Avena sativa</i>	Hay	310	310		--
<i>Azadirachta indica</i>	Flower	1000	1000	0.9439875157035426	--
<i>Azadirachta indica</i>	Leaf	--	--		--
<i>Barosma betulina</i>	Plant	--	--		--
<i>Basella alba</i>	Plant	--	--		--
<i>Berberis vulgaris</i>	Plant	--	--		--
<i>Beta vulgaris</i>	Plant	--	--		--
<i>Borago officinalis</i>	Plant	--	--		Jim Duke's personal files.
<i>Brassica oleracea</i>	Shoot	20	20	-0.6593174841787172	--
<i>Brassica oleracea</i> var. <i>botrytis</i> l.	Leaf	--	--		--
<i>Brassica oleracea</i> var. <i>botrytis</i> l.	Flower	--	6	-1.4106513565908647	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Brassica oleracea</i> var. <i>capitata</i> l.	Leaf	2	100	-0.35041307015361245	Jim Duke's personal files.
<i>Brassica oleracea</i> var. <i>gemmifera</i>	Sprout Seedling	25	25		Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
<i>Brassica oleracea</i> var. <i>italica</i>	Leaf	--	--		Stitt, Paul. Why George should eat broccoli.
<i>Brassica oleracea</i> var. <i>sabellica</i> l.	Leaf	7	50	-0.3512219085769756	--
<i>Caesalpinia pulcherrima</i>	Flower	--	--		--
<i>Calendula officinalis</i>	Plant	--	--		--
<i>Camellia sinensis</i>	Leaf	--	10000	-0.19026306232771106	--
<i>Camellia sinensis</i>	Plant	--	--		--
<i>Camellia sinensis</i>	Shoot	--	--		--
<i>Camptotheca acuminata</i>	Leaf	--	--		--
<i>Capparis spinosa</i>	Flower	--	--		--
<i>Capsicum frutescens</i>	Fruit	63	63	-0.4638273342549432	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
<i>Carum carvi</i>	Fruit	--	--		--
<i>Carum carvi</i>	Seed	--	--		--
<i>Carum carvi</i>	Leaf	--	--		--
<i>Carum carvi</i>	Flower	--	--		--
<i>Castanea sativa</i>	Bark	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Castanea sativa</i>	Leaf	--	--		--
<i>Castanea sativa</i>	Wood	--	--		--
<i>Catharanthus roseus</i>	Plant	--	--		Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
<i>Cedrus deodora</i>	Stem Bark	--	--		--
<i>Ceiba pentandra</i>	Leaf	--	--		--
<i>Centaurea calcitrapa</i>	Plant	--	--		--
<i>Centaurea cyanus</i>	Shoot	--	--		Jim Duke's personal files.
<i>Centella asiatica</i>	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
<i>Ceratonia siliqua</i>	Fruit	--	--		Wealth of India.
<i>Cichorium endivia</i>	Leaf	--	--		--
<i>Cichorium intybus</i>	Plant	--	--		--
<i>Cichorium intybus</i>	Seed	--	1		--
<i>Cinnamomum camphora</i>	Plant	--	--		--
<i>Citrus limon</i>	Flower	--	--		--
<i>Citrus paradisi</i>	Fruit	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Citrus sinensis</i>	Fruit	--	3.4	-0.7856446697799095	Jim Duke's personal files.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Commiphora wightii</i>	Flower	--	--		Jim Duke's personal files.
<i>Consolida ajacis</i>	Flower	--	--		--
<i>Coriandrum sativum</i>	Fruit	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
<i>Coriandrum sativum</i>	Shoot	--	--		--
<i>Coriandrum sativum</i>	Leaf	--	--		--
<i>Coriaria myrtifolia</i>	Leaf	--	--		--
<i>Coriaria thymifolia</i>	Plant	--	--		--
<i>Cornus florida</i>	Flower	--	--		--
<i>Cornus mas</i>	Leaf	--	--		Bate-Smith, E. C., Ferguson, I. K., Hutson, K., Jensen, S. R., Nielsen, B. J., Swain, T. 1975. Phytochemical Interrelationships in the Cornaceae. Biochem. Syst. Ecol., 3: 79.
<i>Corylus avellana</i>	Bark	--	--		--
<i>Crataegus cuneata</i>	Fruit	--	--		--
<i>Crataegus laevigata</i>	Flower	--	--		--
<i>Crataegus laevigata</i>	Shoot	--	--		--
<i>Crataegus laevigata</i>	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Crataegus monogyna</i>	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Crataegus monogyna</i>	Inflorescence	--	--	--	
<i>Crataegus monogyna</i>	Leaf	--	20	-0.3517072116309935	--
<i>Crataegus monogyna</i>	Flower	--	--	--	
<i>Crataegus rhipidophylla</i>	Flower	--	--	--	
<i>Crataegus rhipidophylla</i>	Shoot	--	--	--	
<i>Crataegus rhipidophylla</i>	Inflorescence	--	--	--	
<i>Crocus sativus</i>	Flower	--	--		Abstract (See species file)
<i>Cucurbita pepo</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Curcuma longa</i>	Rhizome	90	95	-1	--
<i>Cyamopsis tetragonoloba</i>	Fruit	--	--		Daniel, M. 1989. Polyphenols of Some Indian Vegetables. Curr Sci, 58(23): 1332-1334.
<i>Cymbopogon citratus</i>	Plant	--	--		--
<i>Cynara cardunculus</i>	Leaf	--	--		Jim Duke's personal files.
<i>Cytisus scoparius</i>	Plant	--	--		--
<i>Daucus carota</i>	Seed	--	--		--
<i>Diospyros virginiana</i>	Plant	--	--		--
<i>Dodonaea viscosa</i>	Plant	--	--		--
<i>Drimys winteri</i>	Leaf	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Echinacea angustifolia</i>	Leaf	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Echinacea purpurea</i>	Leaf	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Echinacea spp</i>	Leaf	--	--		Economic & Medicinal Plant Research, 5: 253.
<i>Elaeagnus angustifolia</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Equisetum arvense</i>	Plant	--	--		Jim Duke's personal files.
<i>Equisetum arvense</i>	Sprout Seedling	--	--		Jim Duke's personal files.
<i>Eriobotrya japonica</i>	Plant	--	--		--
<i>Eucalyptus globulus</i>	Leaf	--	--		--
<i>Eucalyptus globulus</i>	Stem Bark	--	0.3		--
<i>Eucommia ulmoides</i>	Leaf	--	--		--
<i>Eupatorium perfoliatum</i>	Plant	--	--		--
<i>Euphorbia hirta</i>	Plant	--	--		--
<i>Euphorbia lathyris</i>	Leaf	--	--		--
<i>Euphrasia officinalis</i>	Plant	--	--		--
<i>Fagopyrum esculentum</i>	Plant	--	--		--
<i>Fagopyrum esculentum</i>	Testa	--	25		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Fagopyrum esculentum</i>	Seed	--	--		--
<i>Fagopyrum esculentum</i>	Sprout Seedling	--	--		--
<i>Ficus carica</i>	Plant	--	--		--
<i>Filipendula ulmaria</i>	Flower	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Foeniculum vulgare</i>	Fruit	--	--		--
<i>Foeniculum vulgare</i>	Seed	--	--		--
<i>Foeniculum vulgare</i>	Leaf	--	--		Jim Duke's personal files.
<i>Forsythia suspensa</i>	Flower	--	--		--
<i>Fragaria spp</i>	Leaf	--	--		--
<i>Galega officinalis</i>	Shoot	--	--		--
<i>Geranium thunbergii</i>	Leaf	--	--		--
<i>Ginkgo biloba</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ginkgo biloba</i>	Tissue Culture	--	--		Jim Duke's personal files.
<i>Glycine max</i>	Plant	--	--		--
<i>Glycine max</i>	Shoot	--	--		--
<i>Glycyrrhiza glabra</i>	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
<i>Glycyrrhiza glabra</i>	Shoot	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Glycyrrhiza glabra	Root	--	--		--
Glycyrrhiza uralensis	Leaf	--	7	-0.3519175096210679	--
Gossypium sp	Plant	--	--		--
Guazuma tomentosa	Flower	--	--		--
Haematoxylum campechianum	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Hamamelis virginiana	Leaf	--	--		--
Helianthus annuus	Flower	100	400	-0.4773236748162204	--
Helianthus annuus	Leaf	60	210	-0.34863362562221356	--
Hibiscus rosa-sinensis	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Hippophae rhamnoides	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Holarrhena pubescens	Leaf	--	--		--
Houttuynia cordata	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Humulus lupulus	Plant	--	--		--
Hydrangea arborescens	Root	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Hypericum perforatum	Plant	--	20000	1	--
Hypericum perforatum	Shoot	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Hypericum perforatum</i>	Leaf	--	--		--
<i>Hypericum perforatum</i>	Stem	--	--		--
<i>Hypericum perforatum</i>	Flower	--	1000	0.9439875157035426	--
<i>Inula helenium</i>	Inflorescence	--	--		--
<i>Ipomoea batatas</i>	Root	--	--		--
<i>Isatis tinctoria</i>	Plant	--	--		--
<i>Juglans nigra</i>	Leaf	--	--		--
<i>Juglans regia</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Juniperus communis</i>	Leaf	--	--		--
<i>Kalanchoe pinnata</i>	Leaf	--	--		--
<i>Kalanchoe spathulata</i>	Leaf	--	--		--
<i>Lactuca sativa</i>	Plant	--	--		--
<i>Laurus nobilis</i>	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Ledum palustre</i>	Leaf	--	--		--
<i>Leonurus cardiaca</i>	Plant	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
<i>Ligustrum japonicum</i>	Flower	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Ligustrum lucidum</i>	Fruit	--	--		--
<i>Lippia dulcis</i>	Plant	--	--		--
<i>Ludwigia adscendens</i>	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
<i>Ludwigia perennis</i>	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
<i>Lycium chinense</i>	Leaf	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
<i>Lycopersicon esculentum</i>	Fruit	--	--		--
<i>Maclura pomifera</i>	Wood	--	--		Smith, J. L. and Perino, J. V. 1981. Osage Orange ( <i>Maclura pomifera</i> ): History and Economic Uses. <i>Economic Botany</i> 35(1): 24-41
<i>Maclura pomifera</i>	Fruit	270	520	2.0037988794180372	--
<i>Maclura pomifera</i>	Bark	--	14		--
<i>Maclura pomifera</i>	Root	360	1130		--
<i>Magnolia denudata</i>	Plant	--	--		--
<i>Magnolia kobus</i>	Plant	--	--		--
<i>Magnolia officinalis</i>	Plant	--	--		--
<i>Malus domestica</i>	Pericarp	58	263	1	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
<i>Malus domestica</i>	Heart Wood	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Malus domestica</i>	Fruit	2.5	41	-0.582618968173555	--
<i>Mangifera indica</i>	Plant	--	--		--
<i>Maranta arundinacea</i>	Leaf	--	--		--
<i>Marrubium vulgare</i>	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp.
<i>Matricaria recutita</i>	Plant	--	--		Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of <i>Glycyrrhiza-glabra</i> . <i>Nippon Gogeikagaku Kaishi</i> 61(9): 1119-1122.
<i>Medicago sativa</i>	Flower	--	--		--
<i>Melia azedarach</i>	Plant	--	--		--
<i>Melilotus officinalis</i>	Leaf	--	--		Bisset, N.G., ed. 1994. <i>Herbal Drugs and Phytopharmaceuticals</i> . CRC Press. Boca Raton, FL. 566 pp.
<i>Melilotus officinalis</i>	Flower	--	--		--
<i>Menyanthes trifoliata</i>	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp.
<i>Moringa oleifera</i>	Flower	--	--		ANON. 1948-1976. <i>The Wealth of India raw materials</i> . Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Moringa oleifera</i>	Leaf	--	--		List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Morus alba</i>	Plant	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Musa x paradisiaca</i>	Fruit	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
<i>Musa x paradisiaca</i>	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
<i>Myristica fragrans</i>	Plant	--	--		--
<i>Nelumbo nucifera</i>	Flower	--	--		--
<i>Nerium oleander</i>	Leaf	--	--		--
<i>Nicotiana tabacum</i>	Flower	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ocimum basilicum</i>	Leaf	--	--		--
<i>Oenothera biennis</i>	Herb	--	--		--
<i>Oenothera biennis</i>	Leaf	91000	207000	2.9965603257230544	--
<i>Olea europaea</i>	Stem	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ononis spinosa</i>	Shoot	--	--		Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin.
<i>Origanum vulgare</i>	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
<i>Origanum vulgare</i>	Leaf	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Paeonia lactiflora</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Paeonia moutan</i>	Leaf	--	--		--
<i>Paeonia suffruticosa</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Panax notoginseng</i>	Root	--	--		--
<i>Passiflora incarnata</i>	Leaf	--	--		Jim Duke's personal files.
<i>Pastinaca sativa</i>	Leaf	--	--		--
<i>Perilla frutescens</i>	Leaf	--	--		Abstract (See species file)
<i>Persea americana</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Petasites hybridus</i>	Leaf	--	--		Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
<i>Petroselinum crispum</i>	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
<i>Petroselinum crispum</i>	Tissue Culture	--	--		--
<i>Petroselinum crispum</i>	Leaf	--	--		--
<i>Phoenix dactylifera</i>	Pollen Or Spore	--	--		Abstract (See species file)
<i>Phyllanthus emblica</i>	Tissue Culture	--	11850		--
<i>Phyllanthus niruri</i>	Plant	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pimpinella anisum</i>	Seed	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp.
<i>Pinus mugo</i>	Wood	--	--		List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Pinus sylvestris</i>	Bark	--	--		List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Pinus sylvestris</i>	Leaf	--	--		--
<i>Piper nigrum</i>	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Pistacia lentiscus</i>	Leaf	--	--		List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Plumeria acutifolia</i>	Flower	--	--		--
<i>Podophyllum hexandrum</i>	Rhizome	5600	12000	1	ANON. 1948-1976. <i>The Wealth of India raw materials</i> . Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Podophyllum peltatum</i>	Resin, Exudate, Sap	50000	50000		--
<i>Podophyllum pleianthum</i>	Rhizome	--	--		List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Polygonum aviculare</i>	Plant	--	--		--
<i>Polygonum hydropiper</i>	Plant	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Polygonum hydropiperoides</i>	Plant	--	--		--
<i>Populus tacamahacca</i>	Plant	--	--		--
<i>Prosopis juliflora</i>	Plant	--	--		--
<i>Prunella vulgaris</i>	Flower	--	--		--
<i>Prunus armeniaca</i>	Plant	--	--		--
<i>Prunus armeniaca</i>	Fruit	--	--		--
<i>Prunus cerasus</i>	Fruit	--	--		--
<i>Prunus domestica</i>	Plant	--	--		--
<i>Prunus dulcis</i>	Plant	--	--		--
<i>Prunus laurocerasus</i>	Plant	--	--		--
<i>Prunus persica</i>	Plant	--	--		--
<i>Prunus serotina</i>	Plant	--	--		--
<i>Prunus spinosa</i>	Flower	--	--		--
<i>Psidium cattleianum</i>	Plant	--	--		--
<i>Psidium guajava</i>	Leaf	--	200	-0.3487953933068862	--
<i>Psidium guajava</i>	Root	--	--		--
<i>Psidium guajava</i>	Flower	--	--		--
<i>Psidium guajava</i>	Heart Wood	--	--		--
<i>Psidium guajava</i>	Fruit	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pteridium aquilinum</i>	Plant	--	--		--
<i>Pueraria montana</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Pueraria montana</i>	Flower	--	--		--
<i>Pueraria montana</i>	Root	--	--		--
<i>Punica granatum</i>	Plant	--	--		--
<i>Punica granatum</i>	Fruit	--	--		--
<i>Punica granatum</i>	Leaf	--	--		--
<i>Punica granatum</i>	Pericarp	--	--		Seeram, N. P., Schulman, R. N., and Heber, D., eds. 2006. Pomegranates - Ancient Roots to Modern Medicine. Taylor & Francis. Boca Raton, FL. 244 pp.
<i>Pyrus communis</i>	Pericarp	28	28	-1	--
<i>Quercus alba</i>	Bark	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Quercus infectoria</i>	Leaf	--	--		--
<i>Quercus robur</i>	Bark	--	--		--
<i>Quercus velutina</i>	Plant	--	--		--
<i>Rhododendron dauricum</i>	Plant	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Rhus coriaria</i>	Leaf	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
<i>Rhus toxicodendron</i>	Plant	--	--		--
<i>Ribes nigrum</i>	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ribes nigrum</i>	Fruit Juice	--	--		--
<i>Ricinus communis</i>	Plant	--	--		--
<i>Rosa damascena</i>	Flower	--	--		--
<i>Rosa spp</i>	Fruit	--	--		--
<i>Rubus idaeus</i>	Juice	--	--		--
<i>Rumex acetosa</i>	Fruit	--	--		--
<i>Rumex crispus</i>	Leaf	--	--		--
<i>Ruta graveolens</i>	Plant	--	--		--
<i>Salix alba</i>	Bark	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Sambucus canadensis</i>	Fruit	--	--		--
<i>Sambucus nigra</i>	Leaf	--	--		--
<i>Sanguisorba minor</i>	Plant	--	--		--
<i>Sanguisorba officinalis</i>	Plant	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Schinus molle</i>	Leaf	--	--		--
<i>Schinus terebinthifolius</i>	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Senna occidentalis</i>	Root	--	--		--
<i>Silybum marianum</i>	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Silybum marianum</i>	Fruit	--	--		--
<i>Solanum tuberosum</i>	Flower	--	--		--
<i>Solidago gigantea</i>	Leaf	--	--		--
<i>Solidago gigantea</i>	Flower	--	--		--
<i>Solidago virgaurea</i>	Leaf	--	--		--
<i>Sophora japonica</i>	Plant	--	--		--
<i>Sorbus aucubaria</i>	Fruit	--	--		--
<i>Spartium junceum</i>	Plant	--	--		--
<i>Spinacia oleracea</i>	Leaf	1	19	-0.35172338839946077	--
<i>Syzygium aromaticum</i>	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Tabebuia impetiginosa</i>	Heart Wood	--	--		--
<i>Tagetes minuta</i>	Shoot	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Tagetes patula</i>	Plant	--	--		--
<i>Tanacetum vulgare</i>	Plant	--	--		--
<i>Taraxacum officinale</i>	Flower	--	--		--
<i>Terminalia catappa</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Terminalia chebula</i>	Fruit	--	--		Polovyanov, G. G. 1974. Flavonoids from the Fruit of the Yellow Myrobalan Plum. Chem. Nat. Comp. 10 (5): 690-.
<i>Terminalia ivorensis</i>	Bark	--	--		--
<i>Terminalia ivorensis</i>	Stem Bark	--	--		Iwu, M. M., Anyanwu, B. N. 1982. Anti-Inflammatory and Anti-Arthritic Properties of <i>Terminalia ivorensis</i> . Fitoterapia 53: 25-34.
<i>Teucrium botrys</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Teucrium montanum</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Teucrium scordium</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Theobroma cacao</i>	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Thespesia populnea</i>	Flower	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Thevetia peruviana</i>	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
<i>Tilia sp.</i>	Flower	--	--		--
<i>Tribulus terrestris</i>	Flower	--	--		--
<i>Tridax procumbens</i>	Flower	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Trifolium pratense</i>	Flower	--	--		--
<i>Trigonella foenum-graecum</i>	Seed	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
<i>Trigonella foenum-graecum</i>	Plant	--	--		--
<i>Trigonella foenum-graecum</i>	Leaf	--	--		--
<i>Trigonella foenum-graecum</i>	Flower	--	--		--
<i>Triticum aestivum</i>	Plant	--	--		--
<i>Tussilago farfara</i>	Leaf	--	--		--
<i>Uncaria catechu</i>	Bulb	--	--		--
<i>Urginea maritima</i>	Bulb	--	--		--
<i>Urtica dioica</i>	Inflorescence	--	--		Jim Duke's personal files.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Urtica dioica</i>	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp.
<i>Vaccinium corymbosum</i>	Plant	--	--		--
<i>Vaccinium macrocarpon</i>	Fruit	100	250	0.5459015540532566	--
<i>Vaccinium myrtillus</i>	Leaf	--	--		--
<i>Vaccinium vitis-idaea</i>	Leaf	--	--		--
<i>Valeriana officinalis</i>	Plant	--	--		--
<i>Viburnum opulus</i>	Leaf	--	--		--
<i>Vigna radiata</i>	Sprout Seedling	--	--		--
<i>Viola odorata</i>	Plant	--	--		--
<i>Viola tricolor</i>	Flower	--	--		--
<i>Vitis vinifera</i>	Fruit	0.5	16	-0.7176094612628865	--
<i>Vitis vinifera</i>	Leaf	--	--		--
<i>Withania somnifera</i>	Leaf	--	--		--
<i>Zea mays</i>	Plant	--	--		--
<i>Zea mays</i>	Pollen Or Spore	--	--		--
<i>Zingiber officinale</i>	Plant	--	--		Stitt, Paul. Why George should eat broccoli.